

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN122918\  
 Data File : BN004302.D  
 Acq On : 29 Dec 2018 15:35  
 Operator : JU/SJ  
 Sample : J6428-04  
 Misc : GCMS Confirmation  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A41T8

Manual Integrations  
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Sohil  
 1/2/2019 3:42:21 PM

Quant Time: Dec 31 02:50:10 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN121218MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Dec 28 03:12:04 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82  | 152  | 31326    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.62 | 136  | 153504   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.46 | 164  | 92201    | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.21 | 188  | 196810   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.40 | 240  | 194916   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.72 | 264  | 191756   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |      |     |    |      |       |  |
|--------------------------------|------|-----|----|------|-------|--|
| 3) 1,4-Dioxane-d8              | 0.00 | 96  | 0  | 0.00 | ng/uL |  |
| 5) Phenol-d5                   | 0.00 | 99  | 0  | 0.00 | ng/ul |  |
| 7) Bis-(2-Chloroethyl)ether-d  | 0.00 | 67  | 0  | 0.00 | ng/ul |  |
| 9) 2-Chlorophenol-d4           | 0.00 | 132 | 0  | 0.00 | ng/ul |  |
| 13) 4-Methylphenol-d8          | 0.00 | 113 | 0  | 0.00 | ng/ul |  |
| 19) Nitrobenzene-d5            | 0.00 | 128 | 0  | 0.00 | ng/ul |  |
| 22) 2-Nitrophenol-d4           | 0.00 | 143 | 0  | 0.00 | ng/ul |  |
| 26) 2,4-Dichlorophenol-d3      | 0.00 | 165 | 0  | 0.00 | ng/ul |  |
| 29) 4-Chloroaniline-d4         | 0.00 | 131 | 0  | 0.00 | ng/ul |  |
| 43) Dimethylphthalate-d6       | 0.00 | 166 | 0  | 0.00 | ng/ul |  |
| 46) Acenaphthylene-d8          | 0.00 | 160 | 0  | 0.00 | ng/ul |  |
| 51) 4-Nitrophenol-d4           | 0.00 | 143 | 0d | 0.00 | ng/ul |  |
| 57) Fluorene-d10               | 0.00 | 176 | 0d | 0.00 | ng/ul |  |
| 62) 4,6-Dinitro-2-methylphenol | 0.00 | 200 | 0  | 0.00 | ng/ul |  |
| 70) Anthracene-d10             | 0.00 | 188 | 0d | 0.00 | ng/ul |  |
| 78) Pyrene-d10                 | 0.00 | 212 | 0  | 0.00 | ng/ul |  |
| 89) Benzo(a)pyrene-d12         | 0.00 | 264 | 0d | 0.00 | ng/ul |  |

## Target Compounds

|                                |       |     |        |        | Qvalue |     |
|--------------------------------|-------|-----|--------|--------|--------|-----|
| 28) Naphthalene                | 10.66 | 128 | 10203  | 1.239  | ng/ul  | 98  |
| 49) Acenaphthene               | 14.52 | 153 | 13555  | 2.046  | ng/ul  | 98  |
| 53) Dibenzofuran               | 14.86 | 168 | 14102  | 1.500  | ng/ul  | 97  |
| 58) Fluorene                   | 15.51 | 166 | 15333  | 1.958  | ng/ul  | 100 |
| 69) Phenanthrene               | 17.25 | 178 | 281222 | 24.731 | ng/ul  | 100 |
| 71) Anthracene                 | 17.34 | 178 | 60280  | 5.171  | ng/ul  | 99  |
| 76) Fluoranthene               | 19.27 | 202 | 459204 | 32.945 | ng/ul  | 99  |
| 79) Pyrene                     | 19.63 | 202 | 372728 | 34.229 | ng/ul  | 99  |
| 80) Butylbenzylphthalate       | 20.51 | 149 | 42721  | 8.780  | ng/ul  | 96  |
| 82) Benzo(a)anthracene         | 21.38 | 228 | 192170 | 15.811 | ng/ul  | 99  |
| 83) Bis(2-ethylhexyl)phthalate | 21.27 | 149 | 35325  | 4.753  | ng/ul  | 98  |
| 84) Chrysene                   | 21.43 | 228 | 172413 | 15.144 | ng/ul  | 98  |
| 87) Benzo(b)fluoranthene       | 23.02 | 252 | 225749 | 19.653 | ng/ul# | 96  |
| 88) Benzo(k)fluoranthene       | 23.06 | 252 | 77942m | 7.247  | ng/ul  |     |
| 90) Benzo(a)pyrene             | 23.62 | 252 | 131540 | 11.891 | ng/ul# | 97  |
| 91) Indeno(1,2,3-cd)pyrene     | 26.08 | 276 | 93800  | 6.505  | ng/ul  | 95  |
| 92) Dibenzo(a,h)anthracene     | 26.08 | 278 | 26459  | 2.207  | ng/ul# | 81  |
| 93) Benzo(g,h,i)perylene       | 26.82 | 276 | 90525  | 7.500  | ng/ul  | 99  |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

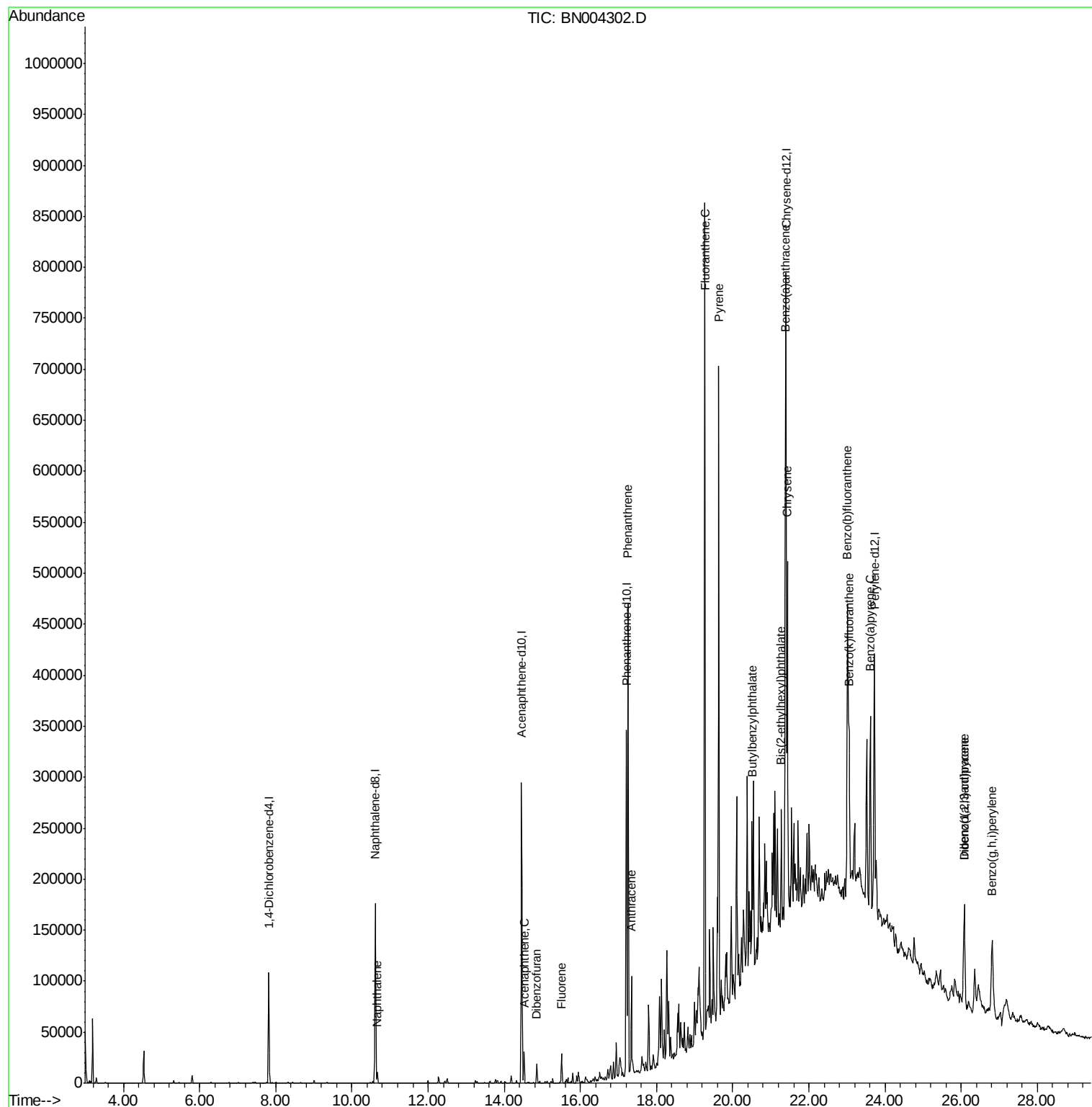
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN122918\  
Data File : BN004302.D  
Acq On : 29 Dec 2018 15:35  
Operator : JU/SJ  
Sample : J6428-04  
Misc : GCMS Confirmation  
ALS Vial : 38 Sample Multiplier: 1

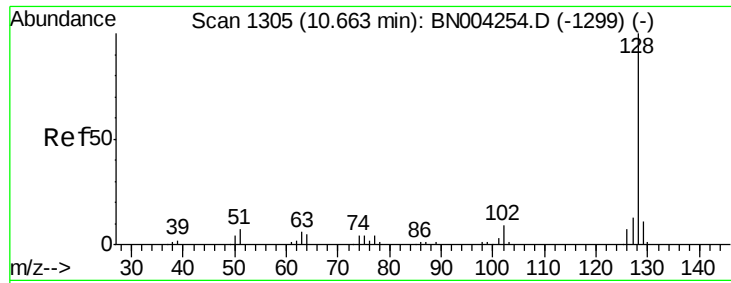
Instrument :  
BNA\_N  
ClientSampled :  
A41T8

Manual Integrations  
APPROVED

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1/2/2019 3:42:21 PM

Quant Time: Dec 31 02:50:10 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN121218MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Dec 28 03:12:04 2018  
Response via : Initial Calibration





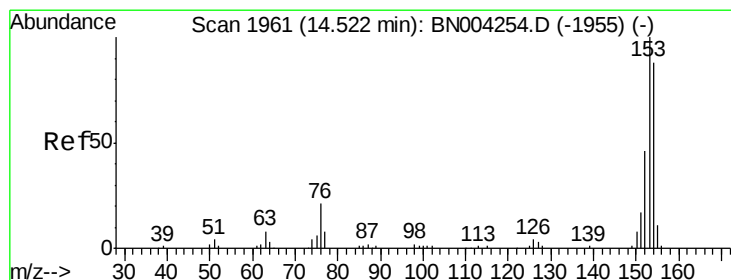
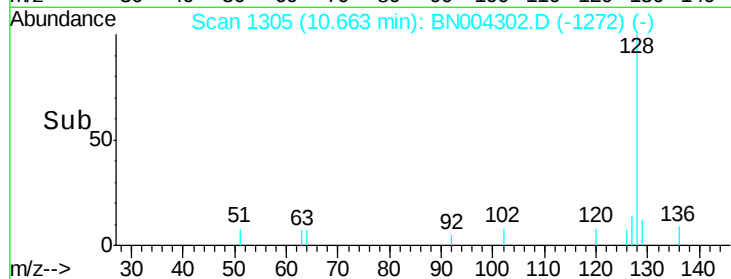
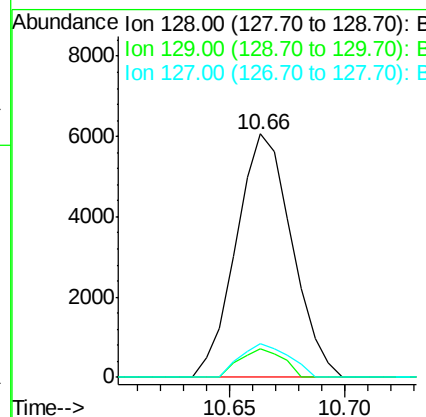
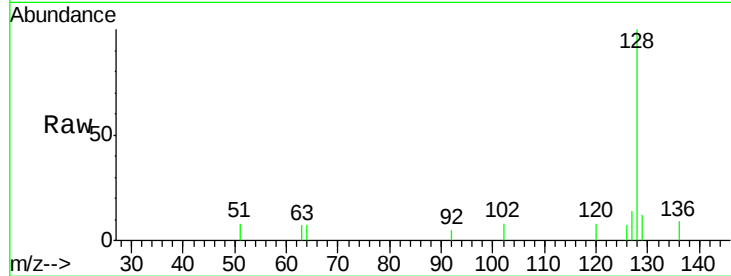
#28  
Naphthalene  
Concen: 1.239 ng/ul  
RT: 10.66 min Scan# 1305  
Delta R.T. -0.01 min  
Lab File: BN004302.D  
Acq: 29 Dec 2018 15:35

Instrument :  
BNA\_N  
ClientSampleId :  
A41T8

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.6  | 8.6   | 12.8  |
| 127     | 13.8  | 10.6  | 16.0  |

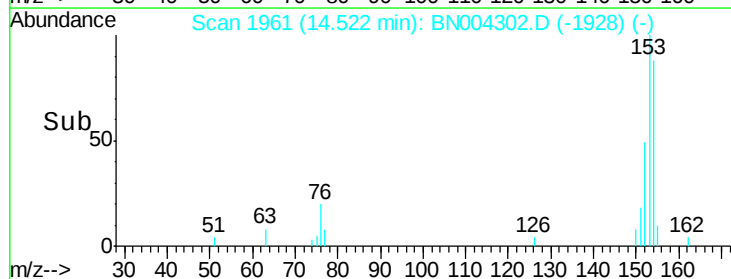
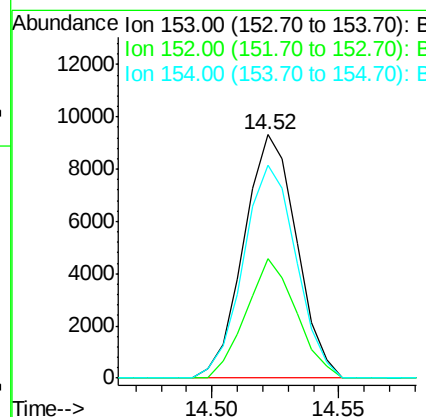
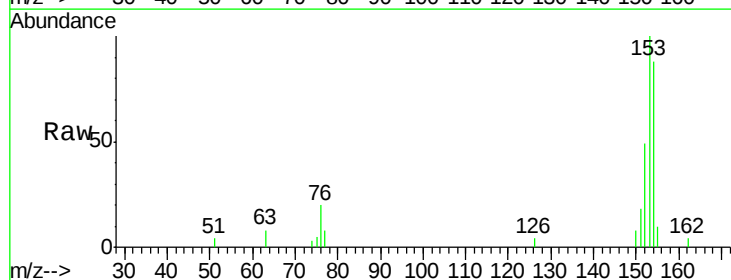
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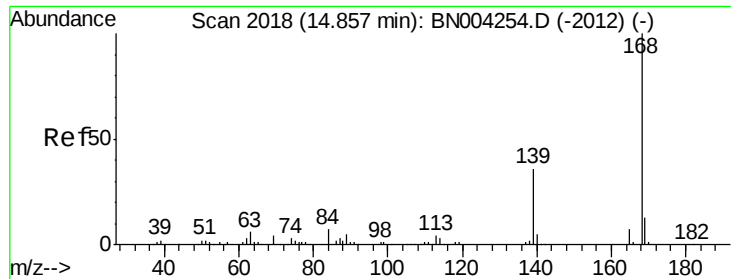
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#49  
Acenaphthene  
Concen: 2.046 ng/ul  
RT: 14.52 min Scan# 1961  
Delta R.T. -0.01 min  
Lab File: BN004302.D  
Acq: 29 Dec 2018 15:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 49.1  | 37.8  | 56.6  |
| 154     | 87.5  | 71.0  | 106.6 |





#53

Dibenzenofuran

Concen: 1.500 ng/ul

RT: 14.86 min Scan# 2018

Delta R.T. -0.01 min

Lab File: BN004302.D

Acq: 29 Dec 2018 15:35

Instrument :

BNA\_N

ClientSampled :

A41T8

Tgt Ion:168 Resp: 14102

Ion Ratio Lower Upper

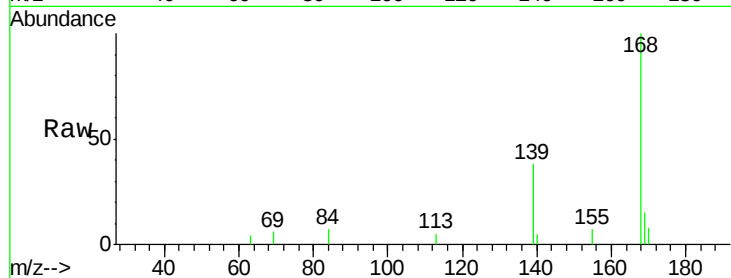
168 100

139 37.7 28.8 43.2

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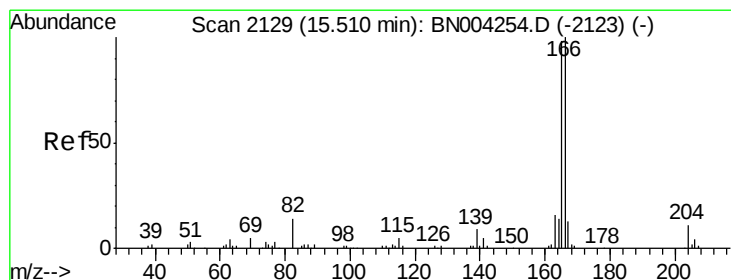
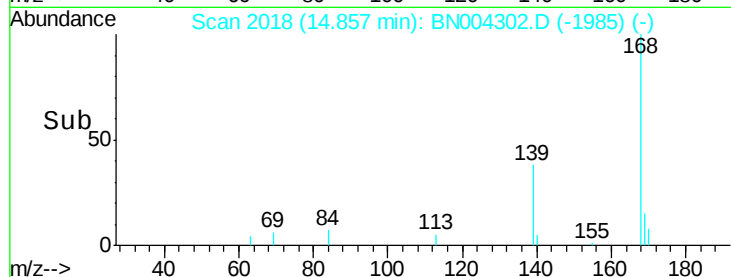
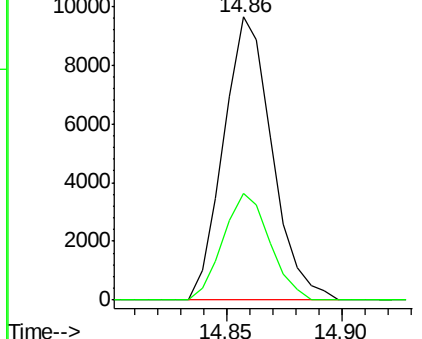
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Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#58

Fluorene

Concen: 1.958 ng/ul

RT: 15.51 min Scan# 2129

Delta R.T. -0.00 min

Lab File: BN004302.D

Acq: 29 Dec 2018 15:35

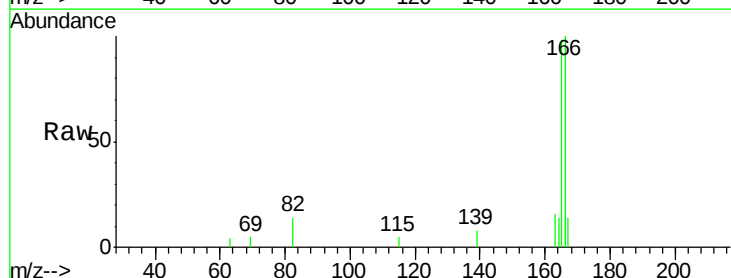
Tgt Ion:166 Resp: 15333

Ion Ratio Lower Upper

166 100

165 98.4 78.6 117.8

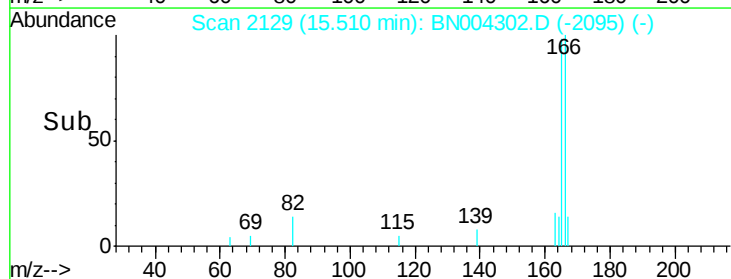
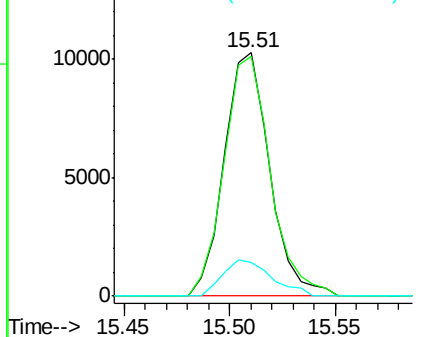
167 13.8 10.3 15.5

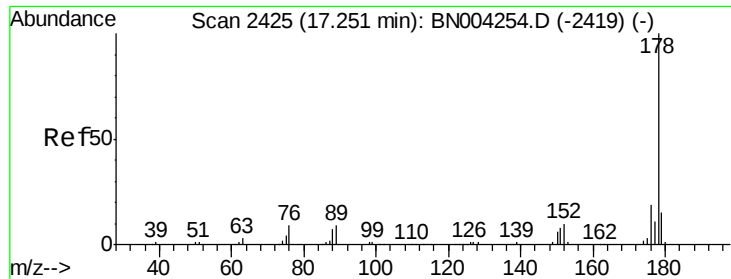


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





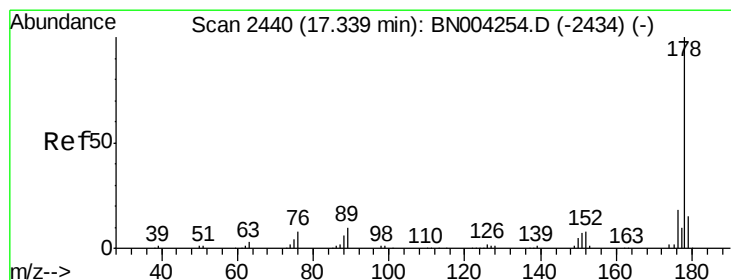
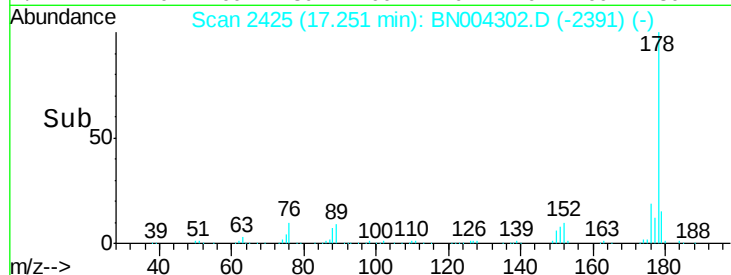
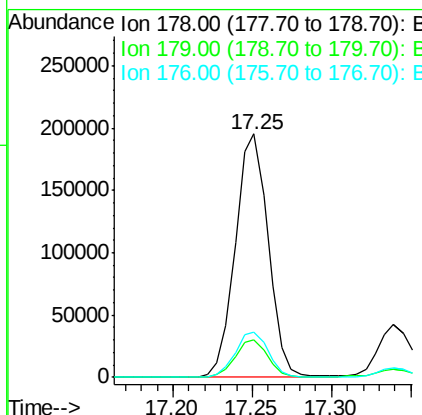
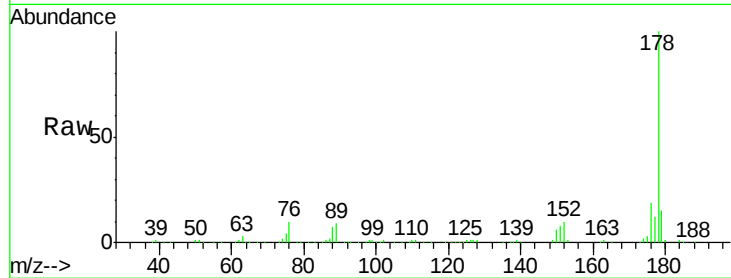
#69  
Phenanthrene  
Concen: 24.731 ng/ul  
RT: 17.25 min Scan# 2425  
Delta R.T. -0.00 min  
Lab File: BN004302.D  
Acq: 29 Dec 2018 15:35

Instrument :  
BNA\_N  
ClientSampled :  
A41T8

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 281222 |       |       |
| 179     | 15.3  | 12.1   | 18.1  |       |
| 176     | 18.6  | 15.0   | 22.6  |       |

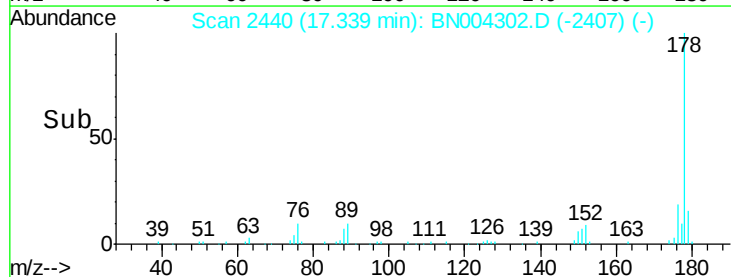
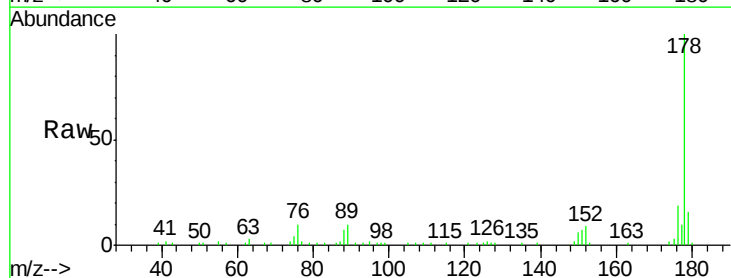
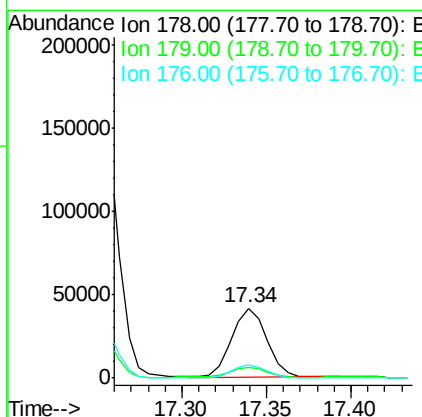
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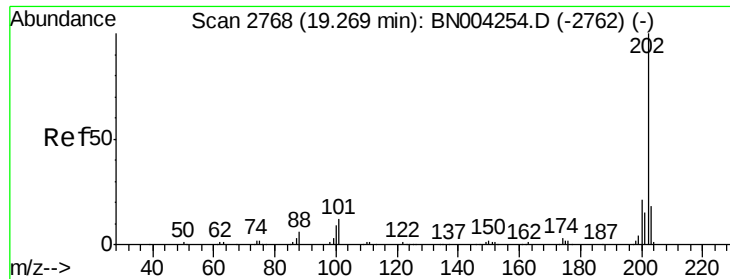
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#71  
Anthracene  
Concen: 5.171 ng/ul  
RT: 17.34 min Scan# 2440  
Delta R.T. -0.01 min  
Lab File: BN004302.D  
Acq: 29 Dec 2018 15:35

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 60280 |       |       |
| 179     | 15.8  | 12.1  | 18.1  |       |
| 176     | 18.5  | 15.2  | 22.8  |       |





#76

Fluoranthene

Concen: 32.945 ng/ul

RT: 19.27 min Scan# 2768

Delta R.T. -0.00 min

Lab File: BN004302.D

Acq: 29 Dec 2018 15:35

Instrument :

BNA\_N

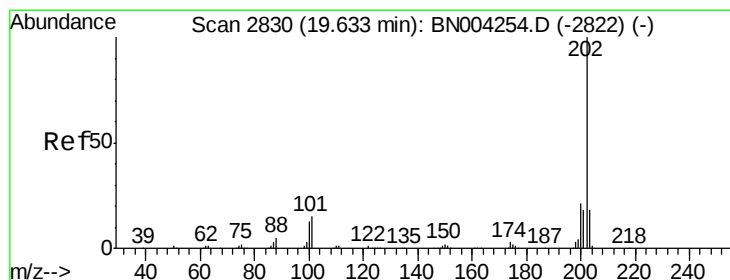
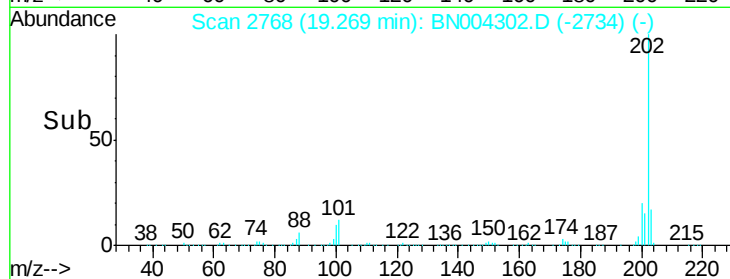
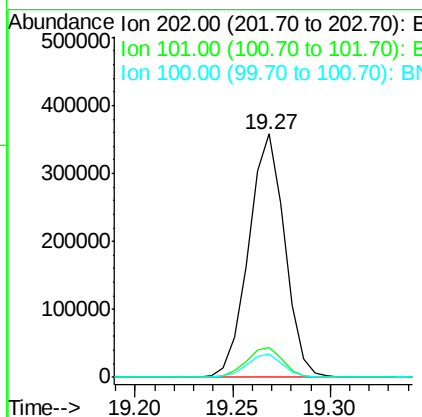
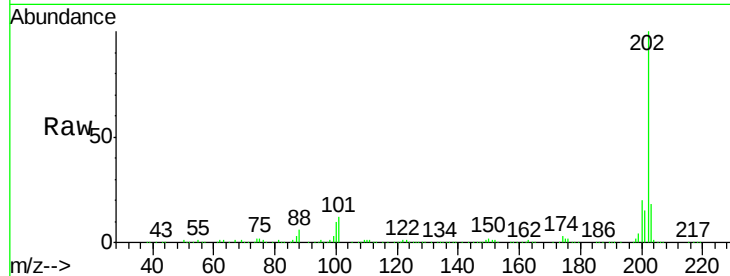
ClientSampleId :

A41T8

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 459204 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 12.3  | 10.2  | 15.2   |
| 100       | 9.6   | 7.8   | 11.8   |

Manual Integrations  
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#79

Pyrene

Concen: 34.229 ng/ul

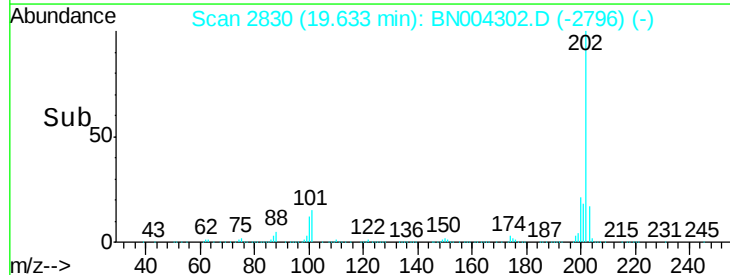
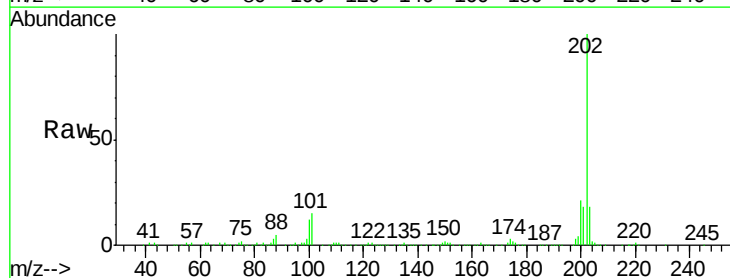
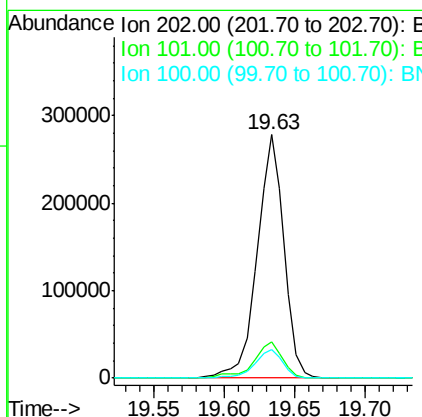
RT: 19.63 min Scan# 2830

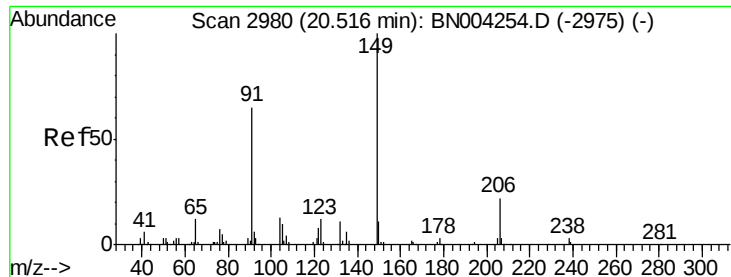
Delta R.T. -0.00 min

Lab File: BN004302.D

Acq: 29 Dec 2018 15:35

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 372728 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 14.6  | 12.2  | 18.2   |
| 100       | 11.8  | 9.9   | 14.9   |





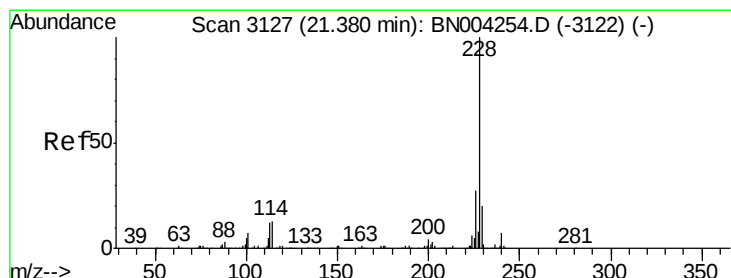
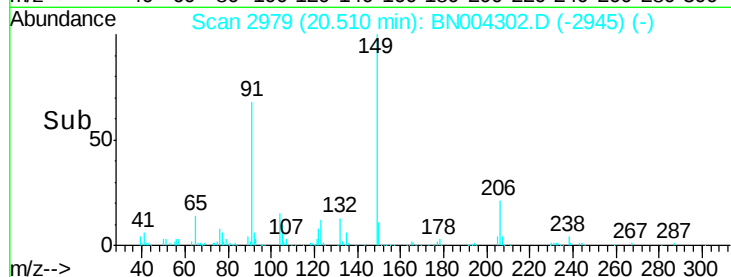
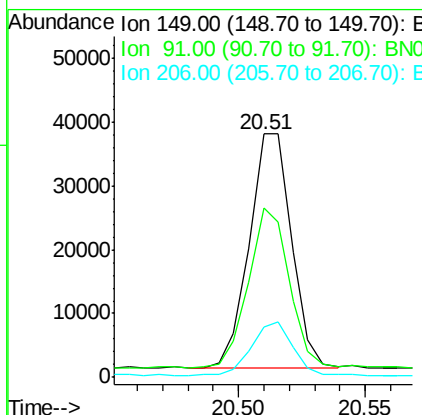
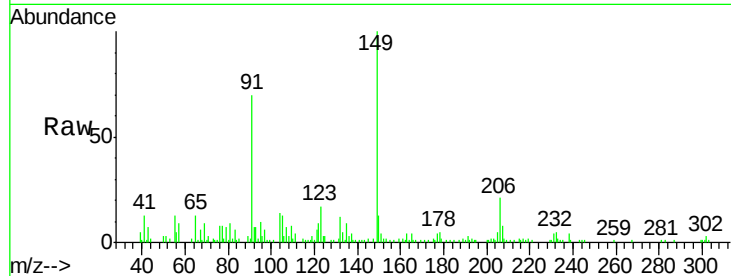
#80  
Butylbenzylphthalate  
Concen: 8.780 ng/ul  
RT: 20.51 min Scan# 2979  
Delta R.T. -0.00 min  
Lab File: BN004302.D  
Acq: 29 Dec 2018 15:35

Instrument :  
BNA\_N  
ClientSampleId :  
A41T8

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 69.6  | 53.0  | 79.4  |
| 206     | 20.5  | 17.1  | 25.7  |

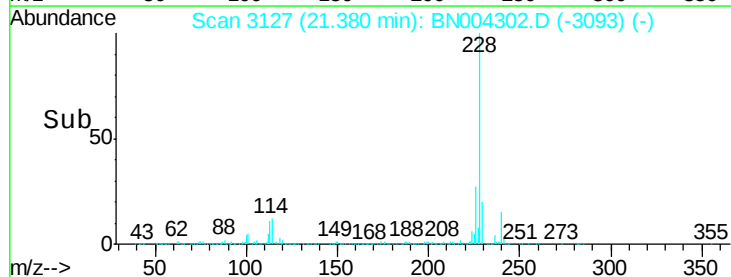
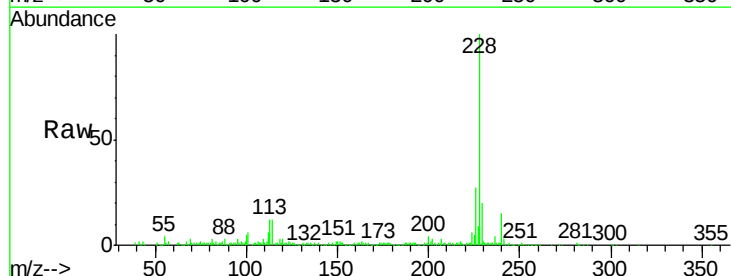
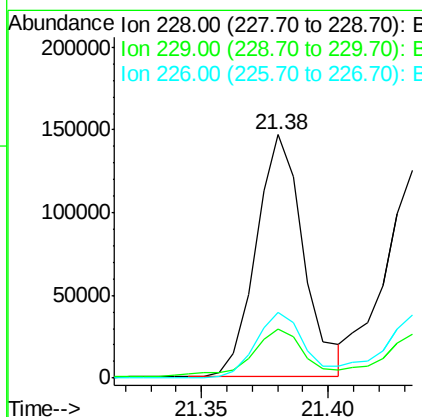
Manual Integrations  
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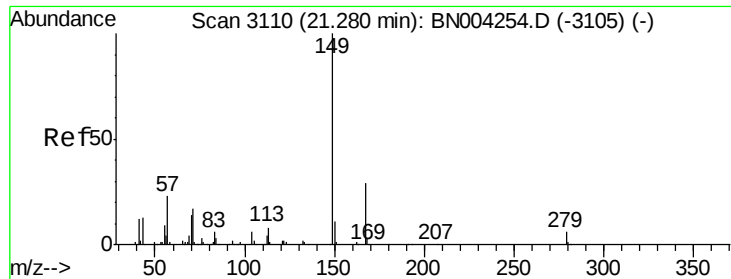
Sohil  
1/2/2019 3:42:21 PM



#82  
Benzo(a)anthracene  
Concen: 15.811 ng/ul  
RT: 21.38 min Scan# 3127  
Delta R.T. -0.00 min  
Lab File: BN004302.D  
Acq: 29 Dec 2018 15:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.4  | 15.9  | 23.9  |
| 226     | 27.0  | 21.4  | 32.2  |





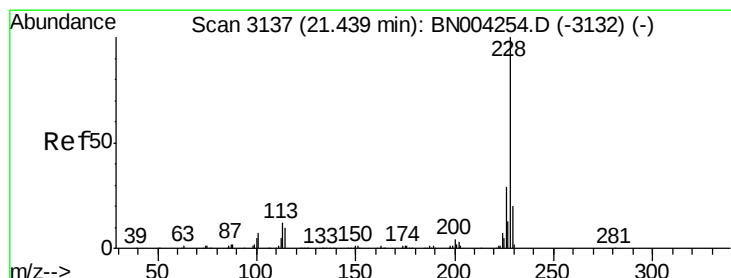
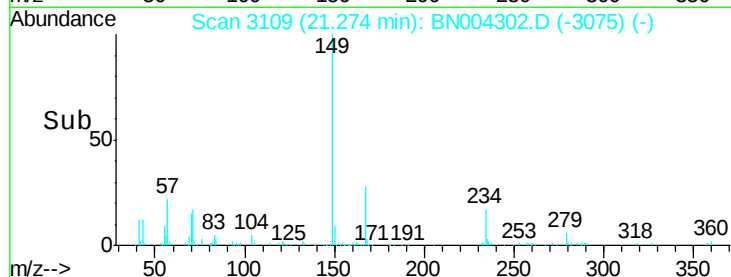
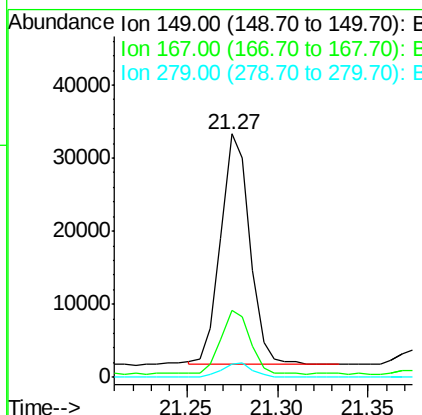
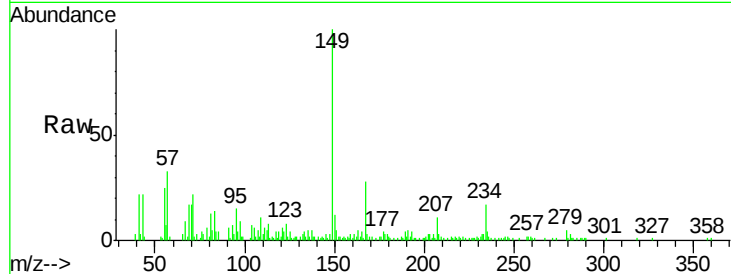
#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 4.753 ng/ul  
 RT: 21.27 min Scan# 3109  
 Delta R.T. -0.00 min  
 Lab File: BN004302.D  
 Acq: 29 Dec 2018 15:35

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A41T8

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 149     | 100   | 35325 |       |       |
| 167     | 27.8  | 23.0  | 34.4  |       |
| 279     | 5.3   | 4.4   | 6.6   |       |

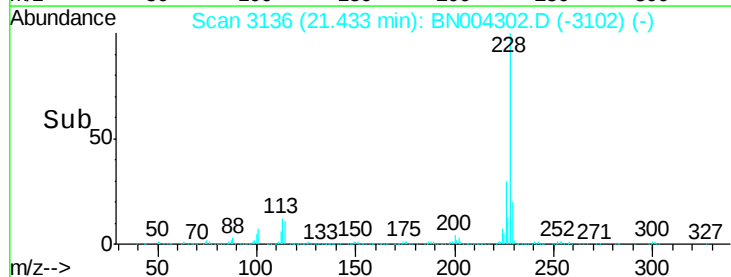
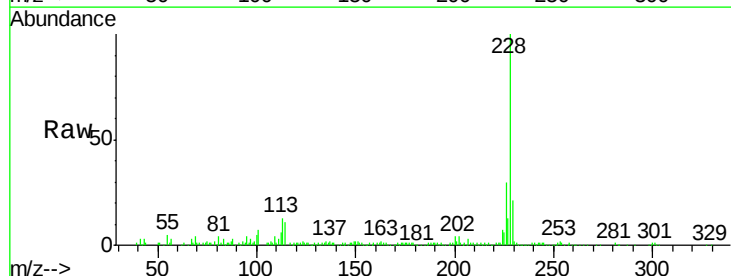
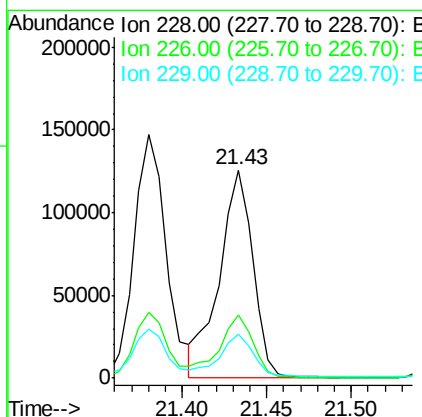
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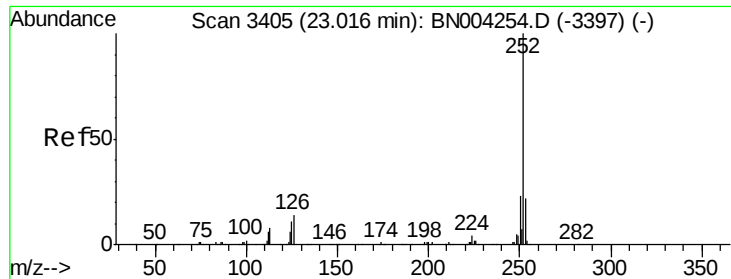
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#84  
 Chrysene  
 Concen: 15.144 ng/ul  
 RT: 21.43 min Scan# 3136  
 Delta R.T. -0.00 min  
 Lab File: BN004302.D  
 Acq: 29 Dec 2018 15:35

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 172413 |       |       |
| 226     | 30.3  | 23.8   | 35.8  |       |
| 229     | 21.0  | 15.8   | 23.6  |       |





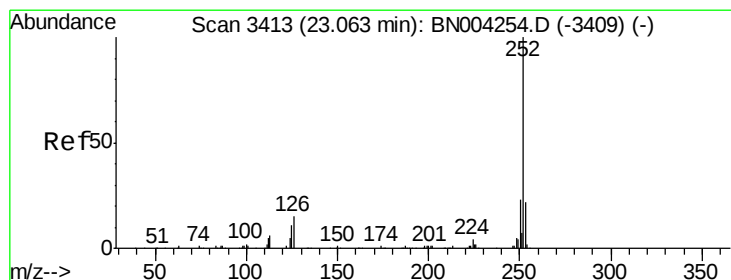
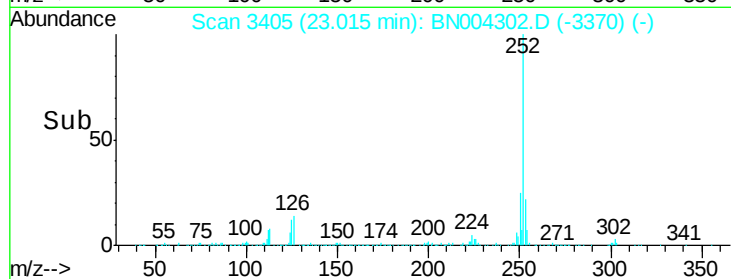
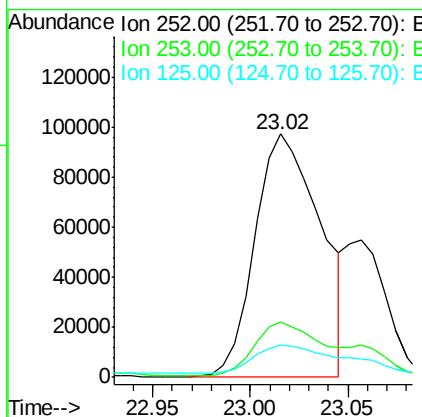
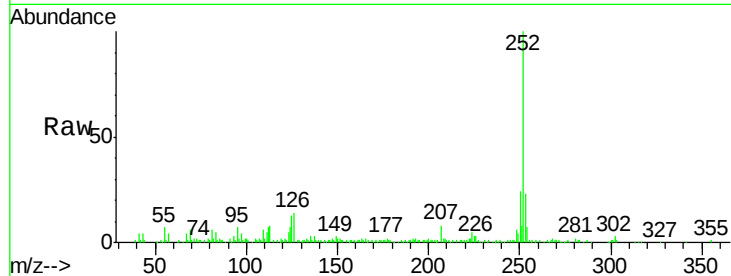
#87  
Benzo(b)fluoranthene  
Concen: 19.653 ng/ul  
RT: 23.02 min Scan# 3405  
Delta R.T. 0.01 min  
Lab File: BN004302.D  
Acq: 29 Dec 2018 15:35

Instrument :  
BNA\_N  
ClientSampleId :  
A41T8

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.8  | 17.3  | 25.9  |
| 125     | 13.2  | 8.2   | 12.4  |

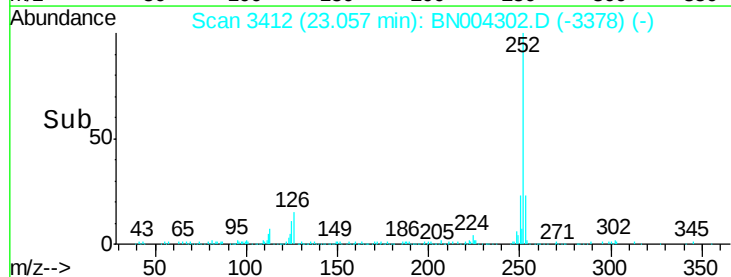
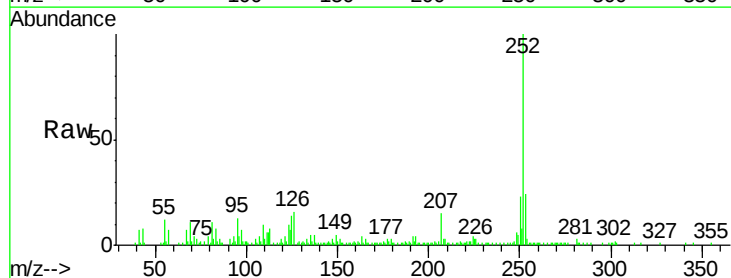
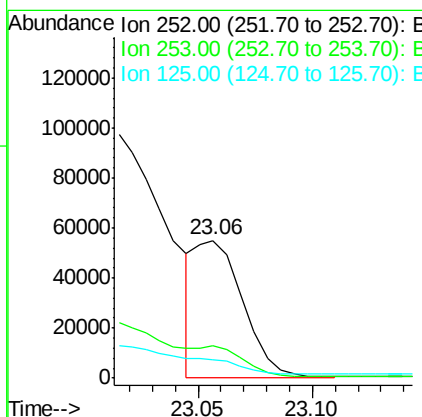
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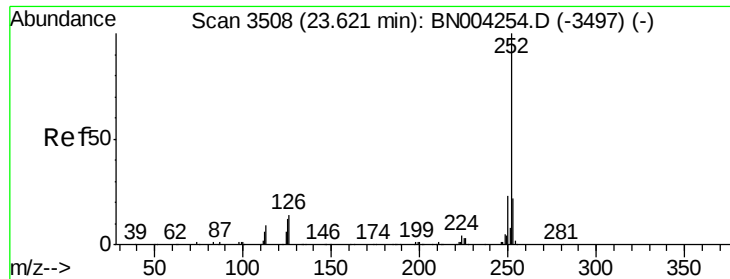
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#88  
Benzo(k)fluoranthene  
Concen: 7.247 ng/ul m  
RT: 23.06 min Scan# 3412  
Delta R.T. -0.00 min  
Lab File: BN004302.D  
Acq: 29 Dec 2018 15:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 17.1  | 25.7  |
| 125     | 13.6  | 7.9   | 11.9  |





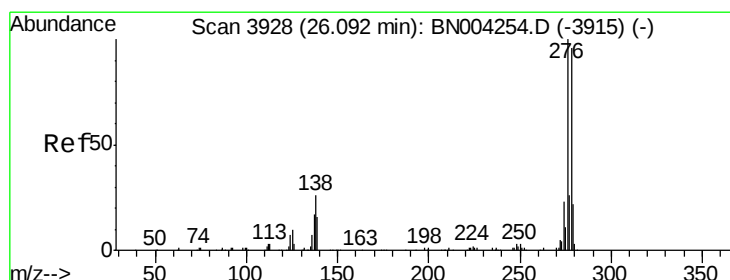
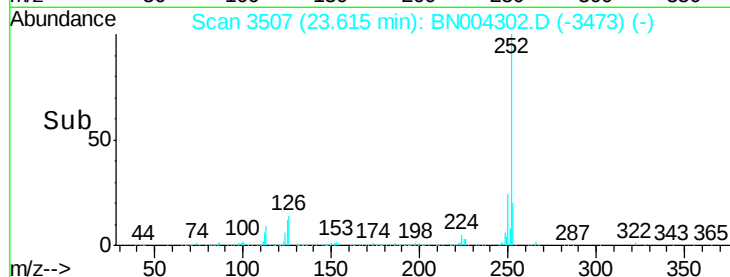
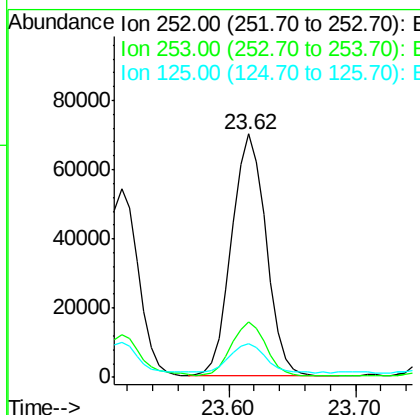
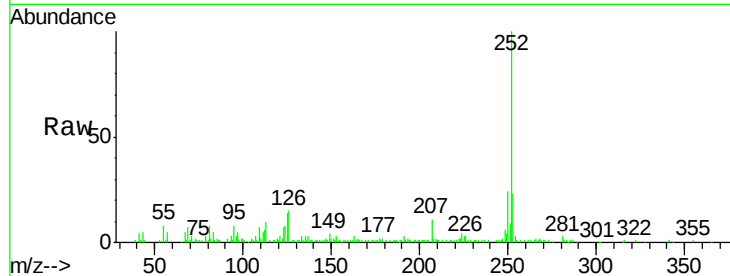
#90  
Benzo(a)pyrene  
Concen: 11.891 ng/u1  
RT: 23.62 min Scan# 3507  
Delta R.T. -0.00 min  
Lab File: BN004302.D  
Acq: 29 Dec 2018 15:35

Instrument :  
BNA\_N  
ClientSampleId :  
A41T8

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 252     | 100   |            |            |
| 253     | 22.7  | 17.5       | 26.3       |
| 125     | 13.8  | 9.1        | 13.7       |

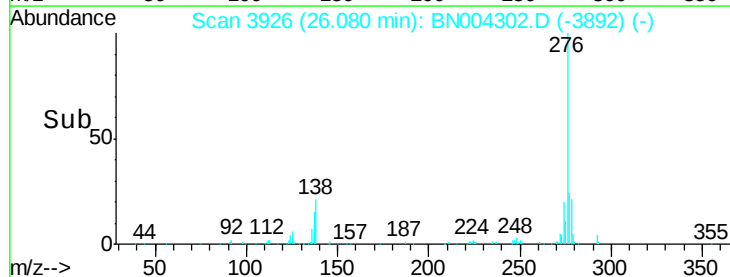
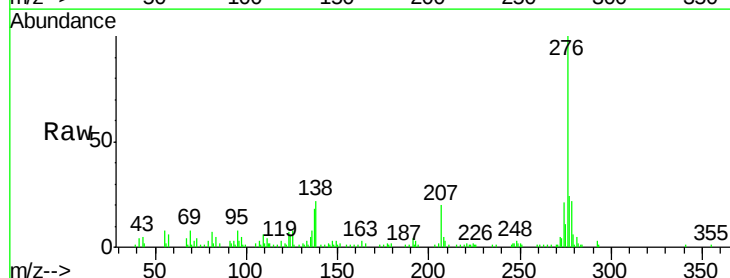
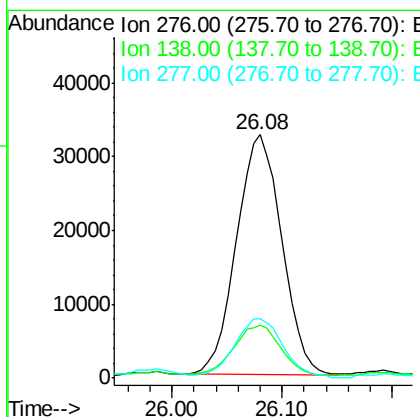
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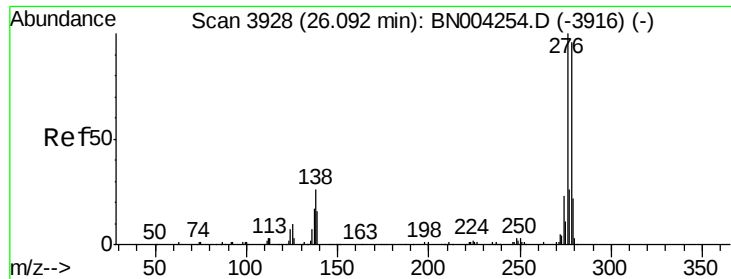
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#91  
Indeno(1,2,3-cd)pyrene  
Concen: 6.505 ng/u1  
RT: 26.08 min Scan# 3926  
Delta R.T. -0.00 min  
Lab File: BN004302.D  
Acq: 29 Dec 2018 15:35

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 276     | 100   |            |            |
| 138     | 21.9  | 20.4       | 30.6       |
| 277     | 24.4  | 20.6       | 30.8       |





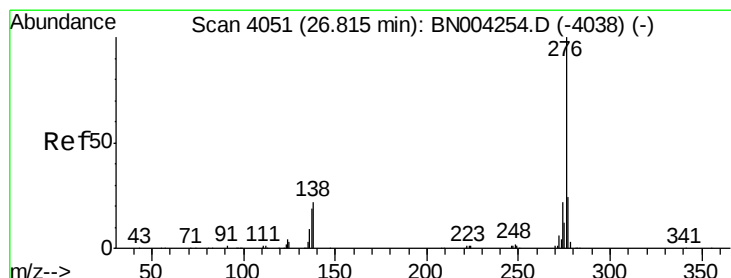
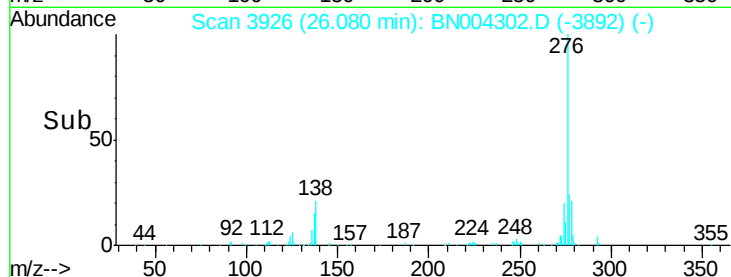
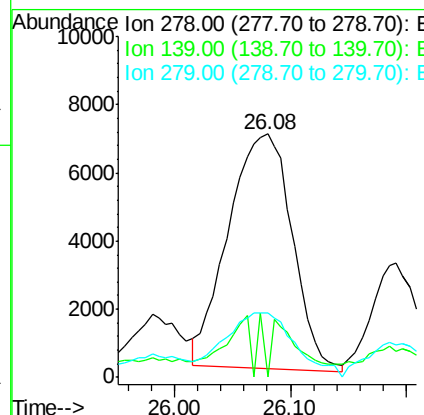
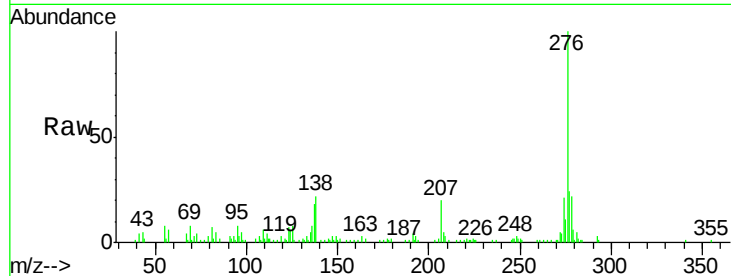
#92  
Dibenzo(a,h)anthracene  
Concen: 2.207 ng/u1  
RT: 26.08 min Scan# 3926  
Delta R.T. -0.00 min  
Lab File: BN004302.D  
Acq: 29 Dec 2018 15:35

Instrument :  
BNA\_N  
ClientSampleId :  
A41T8

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 0.0   | 13.3  | 19.9# |
| 279     | 26.3  | 19.0  | 28.6  |

Manual Integrations  
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#93  
Benzo(g,h,i)perylene  
Concen: 7.500 ng/u1  
RT: 26.82 min Scan# 4051  
Delta R.T. 0.01 min  
Lab File: BN004302.D  
Acq: 29 Dec 2018 15:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.7  | 18.2  | 27.4  |
| 277     | 24.4  | 19.0  | 28.6  |

